CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/AP/W.No.15/CSR.7/890c/CEMENT/2015-16

Date: 10.07.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. A. Pradeep,** No. 29.1, 2nd Cross, EWS, K.H.B Colony, 2nd Stage, Basaveshwaranagara, Bangalore.
*NAME OF THE WORK	:	Improvements and construction of CC road, drain and RCC Culverts at KK road Old Masidi surroundings in Dasarahalli Ward No.15, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 08.07.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	08.07.2015
PERIOD OF TESTING	:	08.07.2015 to 10.07.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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VISHWANATH. I.A.
Chief Executive Officer

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Job No.: CTCE/BBMP/AP/W.No.15/CSR.7/890c/SAND-Gradation/2015-16 : 10.07.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. A. Pradeep,** No. 29.1, 2nd Cross, EWS, K.H.B Colony, 2nd Stage, Basaveshwaranagara, Bangalore.
* Name of Work	: Improvements and construction of CC road, drain and RCC Culverts at KK road Old Masidi surroundings in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 08.07.2015
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 08.07.2015
Date of Testing	: 10.07.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.46	90-100	90-100	90-100	95-100
2.36	80.10	60-95	75-100	85-100	95-100
1.18	58.52	30-70	55-90	75-100	90-100
600 Micron	26.23	15-34	35-59	60-79	80-100
300 Micron	14.80	5-20	8-30	12-40	15-50
150 Micron	6.25	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Chief Executive Officer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
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T-2377

Job No: CTCE/BBMP/AP/W.No.15/CSR.7/898/AGG/GR/2015-16 : 10.07.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. A. Pradeep, No. 29.1, 2nd Cross, EWS, K.H.B Colony, 2nd Stage, Basaveshwaranagara, Bangalore.
* Name of Work	: Improvements and construction of CC road, drain and RCC Culverts at KK road Old Masidi surroundings in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 08.07.2015
Technical Reference	: IS : 2386 Part I -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 08.07.2015
Date of Testing	: 10.07.2015

Total Wt. of Aggregates in gms = 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	
63	100		100
40	97.05	95-100	85-100
20	45.65	30-70	0-20
10	23.30	10-35	0-5
4.75	2.10	0-5	

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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T-2377

Job No.: CTCE/BBMP/AP/W.No.15/CSR.7/890c/CC Solid Block/2015-16 : 15.07.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. A. Pradeep,** No. 29.1, 2nd Cross, EWS, K.H.B Colony, 2nd Stage, Basaveshwaranagara, Bangalore.
* Name of the Work	: Improvements and construction of CC road, drain and RCC Culverts at KK road Old Masidi surroundings in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 08.07.2015
Sample Received on	: 08.07.2015
Date of Testing	: 15.07.2015
Size of Blocks	: 400mm x 200mm x 200mm
Cross Sectional Area	: 80000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	35.62	262.5	3.28	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	33.17	263.7	3.30	
3	Block 3	34.82	261.8	3.27	
4	Block 4	35.23	259.3	3.24	
5	Block 5	34.96	261.4	3.27	
6	Block 6	36.47	263.8	3.30	
7	Block 7	35.26	262.4	3.28	
8	Block 8	34.78	261.9	3.27	

*Information is furnished by the Customer/Representative.

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T-2377

Job No.: CTCE/BBMP/AP/W.No.15/CSR.7/890c/Pre slab/2015-16

05.08.2015

TEST REPORT ON CONCRETE CORE (PRECAST SLAB)

* Name of Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Name of Agency	:	**Mr. A. Pradeep,** No. 29.1, 2nd Cross, EWS, K.H.B Colony, 2nd Stage, Basaveshwaranagara, Bangalore.
* Name of work	:	Improvements and construction of CC road, drain and RCC Culverts at KK road Old Masidi surroundings in Dasarahalli Ward No.15, BBMP, Bangalore.
Referece	:	BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 08.07.2015
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Precast Slab
Sample received on	:	01.08.2015
Date of Testing	:	05.08.2015
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.412	2558.90	1.64	0.965	33.60	17.11	18.48	17.83	22.29
2	50.00	80.00	0.399	2540.11	1.60	0.960	32.45	16.53	17.85	17.13	21.42
3	50.00	81.00	0.402	2527.62	1.62	0.965	32.85	16.73	18.07	17.44	21.80

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Job No.: CTCE/BBMP/AP/W.No.15/WMM/Gradation/2015-16

10.08.2015

GRADATION FOR WMM
MORTH TABLE-400-11

Customer : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Mr. A. Pradeep,**
No. 29.1, 2nd Cross, EWS, K.H.B Colony, 2nd Stage, Basaveshwaranagara, Bangalore.

Name of Work : Improvements and construction of CC road, drain and RCC Culverts at KK road Old Masidi surroundings in Dasarahalli Ward No.15, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 08.07.2015

Date of Testing : 10.08.2015

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **9600**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	365	365	3.8	96.2	95-100
22.4	2245	2610	27.2	72.8	60-80
11.2	1320	3930	40.9	59.1	40-60
4.75	2185	6115	63.7	36.3	25-40
2.36	1230	7345	76.5	23.5	15-30
0.600	1025	8370	87.2	12.8	8-22
0.075	945	9315	97.0	3.0	0-8

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